

REMARKS

Claims 29-57 are now pending in this application. Claim 57 is added with this Amendment, which responds to the Office action mailed July 10, 2003. New claim 57 is supported throughout the specification, the originally-filed claims, and the figures.

In the Office Action, the Examiner allowed claims 32, 33, 37-39, 41-43, and 46-49, and Applicant appreciates those allowances. Claims 31, 34, and 35 were objected to as being dependent upon a rejected base claim (claim 29), but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 31, 34, and 35 have not been rewritten in this Amendment, since Applicant traverses the rejection of claim 29.

The remaining claims were rejected on new grounds. Claims 29, 30, 36, 40, 44, 45, and 50-56 were rejected under 35 U.S.C. § 102(b) over Chen et al., and claims 45 and 51-54 were rejected under 35 U.S.C. § 103(a) as unpatentable over Chen et al. in view of Kane et al.

Claims 29, 30, 36, 40, 44, 45, and 50-56 were rejected under 35 U.S.C. § 102(b) as being anticipated by Chen et al. In response, Applicant respectfully traverses the rejection and submits the following remarks.

The antenna described in Chen et al. ("Chen") uses a two conductor ("two arms"; see Fig. 1) spiral antenna to produce resonances in a plurality of frequency bands. There is no teaching in Chen that a single conductor spiral antenna can be used to produce resonances in a plurality of frequency bands, nor does Chen describe what antenna element lengths and spacing should be used with a single conductor spiral antenna to obtain resonances in a plurality of frequency bands.

Thus, Chen does not anticipate any of the pending claims, all of which are directed to single conductor antennas configured to produce resonances in a plurality of frequency bands.

Regarding the § 103 rejection of 45 and 51-54 under 35 U.S.C. § 103(a) as unpatentable over Chen in view of Kane et al. ("Kane"), Applicant respectfully traverses the rejection and submits the following remarks.

Kane discloses an apparatus comprising a plurality of antennas. For example, FIG. 30b, relied upon in the Office Action, depicts three "antenna devices" (see col. 12, line 45 – col. 13, line 3). Kane does not mention resonances in a plurality of frequency bands at all.

Thus, Kane cannot be combined with Chen to render unpatentable any of the pending claims, all of which are limited to single conductor antennas configured to produce resonances in a plurality of frequency bands.

In light of the above amendments and remarks, Applicant respectfully requests reconsideration of this application with a view towards allowance. The Examiner is invited to call the undersigned attorney at 212-790-6236, if a telephone call could help resolve any remaining items.

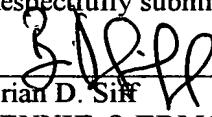
No fee is believed to be due with this Amendment. However, should any fee be due, please charge it to Pennie & Edmonds's Deposit Account 16-1150.

Respectfully submitted,

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(Reg. No.)


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